

Comparisons of Job Characteristics

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Excavating and Loading Machine and Dragline Operators (53-7032)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 79

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Excavating and Loading Machine and Dragline Operators (53-7032)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	12.0	11.0	0	Current knowledge level may be sufficient
Building and Construction	4.0	10.7	12.2	>	Current knowledge level is likely sufficient
Public Safety and Security	6.9	9.1	14.2	>>	Current knowledge level is likely more than sufficient
Production and Processing	6.0	8.4	5.4	<<	Extensive education and/or training may be required
Transportation	4.6	7.4	10.6	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 95

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Excavating and Loading Machine and Dragline Operators (53-7032)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation and Control	5.4	13.2	11.4	<	A higher skill level may be required
Operation Monitoring	6.6	11.4	11.4	0	Current skill level may be sufficient
Troubleshooting	4.5	8.3	8.5	0	Current skill level may be sufficient
Repairing	3.4	8.2	7.9	0	Current skill level may be sufficient
Equipment Maintenance	3.5	8.0	8.3	0	Current skill level may be sufficient
Equipment Selection	3.3	6.7	4.4	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 85			
Focus Occupation: Highway Maintenance Workers (47-4051) Associated Occupation: Excavating and Loading Machine and Dragline Operators (53-7032)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	15.6	13.3	<	Some improvement in abilities may be required
Multilimb Coordination	6.0	15.6	12.9	<	Some improvement in abilities may be required
Depth Perception	5.3	14.4	10.2	<<	Extensive improvement in abilities may be required
Reaction Time	4.8	13.4	10.8	<	Some improvement in abilities may be required
Response Orientation	4.0	13.0	9.8	<<	Extensive improvement in abilities may be required
Far Vision	7.8	12.9	8.7	<<	Extensive improvement in abilities may be required
Auditory Attention	5.9	12.6	10.5	<	Some improvement in abilities may be required
Spatial Orientation	2.7	11.4	6.9	<<	Extensive improvement in abilities may be required
Peripheral Vision	2.2	9.8	5.5	<<	Extensive improvement in abilities may be required
Speed of Limb Movement	3.2	9.6	8.7	<	Some improvement in abilities may be required
Sound Localization	2.2	7.6	5.0	<<	Extensive improvement in abilities may be required
Night Vision	2.1	6.5	4.8	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 37
Focus Occupation: Highway Maintenance Workers (47-4051) Associated Occupation: Excavating and Loading Machine and Dragline Operators (53-7032)		
Work Activities	Exclusivity of Activity	
Use hand or power tools	2	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 83

Focus Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation: Excavating and Loading Machine and Dragline Operators (53-7032)

Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1
Dispensing tools	6
Drilling and operation machinery	29
Earth moving machinery	11
Forming tools	2
Heavy equipment components	21
Holding and clamping tools	3
Information exchange software	1
Lifting equipment and accessories	3
Product and material trailers	24
Product and material transport vehicles	13
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.